

Title (en)

THERMAL INSULATION FOAMED SHEET, THERMAL INSULATION FOAMED CONTAINER AND METHOD FOR PRODUCING THE SAME

Title (de)

GESCHÄUMTE WÄRMEISOLIERFOLIE, GESCHÄUMTER WÄRMEISOLIERBEHÄLTER UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

FEUILLE DE MOUSSE D'ISOLATION THERMIQUE, CONTENANT DE MOUSSE D'ISOLATION THERMIQUE ET PROCEDE DE FABRICATION ASSOCIE

Publication

EP 1547762 A4 20100609 (EN)

Application

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Priority

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Abstract (en)

[origin: EP1547762A1] The present invention relates to a thermal insulation foamed sheet whose foaming height can be kept high by increasing a expansion ratio of foaming cells, thermal insulation foamed container using this and method for producing the same. <??>In the thermal insulation foamed sheet according to the present invention, a foaming plane made of a foaming cell group is formed by heating the sheet in which a synthetic resin film is laminated on base paper and foaming the synthetic resin film using moisture contained in the base paper, and at least a part of the foaming plane is vacuum-suctioned so as to increase the foaming height of the foaming cell. Also, there can be made a thermal insulation foamed container having this foaming plane on at least its body section. <IMAGE>

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Citation (search report)

- [XY] US 4435344 A 19840306 - IIOKA AKIRA [JP]
- [Y] DATABASE WPI Week 200174, Derwent World Patents Index; AN 2001-642448, XP002580212
- [Y] DATABASE WPI Week 198650, Derwent World Patents Index; AN 1986-329393, XP002580213 & JP 2001247118 A 20010911 - OJI PAPER CO, et al & JP S61246041 A 19861101 - SEKISUI PLASTICS
- See references of WO 2004011241A1

Cited by

US9783359B2

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DOCDB simple family (application)

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